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L23

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*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR*

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<u>L22</u>	707/100	4674	<u>L22</u>
<u>L21</u>	707/3	6505	<u>L21</u>
<u>L20</u>	707.clas.	20872	<u>L20</u>
<u>L19</u>	358.clas.	42797	<u>L19</u>
<u>L18</u>	358/1.5	448	<u>L18</u>
<u>L17</u>	358/1.2	950	<u>L17</u>
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<u>L15</u>	700/99	455	<u>L15</u>
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<u>L13</u>	700/97	834	<u>L13</u>
<u>L12</u>	700/96	422	<u>L12</u>
<u>L11</u>	700.clas.	38193	<u>L11</u>
<u>L10</u>	709.clas.	29142	<u>L10</u>

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<u>L8</u>	709/226	2750	<u>L8</u>
<u>L7</u>	L6 and (database or data with base)	348	<u>L7</u>
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<u>L5</u>	L4 and image	1313	<u>L5</u>
<u>L4</u>	print\$ near layout	2332	<u>L4</u>
<u>L3</u>	L2 and print\$ near layout	3	<u>L3</u>
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<u>L1</u>	search\$ near (database or data with base)	19514	<u>L1</u>

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L3: Entry 3 of 3

File: USPT

Sep 11, 2001

US-PAT-NO: 6289254

DOCUMENT-IDENTIFIER: US 6289254 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Parts selection apparatus and parts selection system with CAD function

DATE-ISSUED: September 11, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shimizu; Munenori	Yokohama			JP
Ichiki; Takanobu	Yokohama			JP
Kato; Motoaki	Yokohama			JP
Hayashi; Kimiyoshi	Soka			JP
Sawada; Hideki	Inagi			JP
Sato; Katsuya	Chigasaki			JP
Muramatsu; Yumi	Mishima			JP
Kochiya; Hiroshi	Yokohama			JP
Nakagawa; Takahiro	Yokohama			JP
Iyoda; Tadatsugu	Niiza			JP

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Canon Kabushiki Kaisha	Tokyo			JP	03

APPL-NO: 09/ 010308   [PALM]

DATE FILED: January 21, 1998

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	9-011550	January 24, 1997

INT-CL: [07] G06 F 19/00

US-CL-ISSUED: 700/96; 700/97, 700/182

US-CL-CURRENT: 700/96; 700/182, 700/97

FIELD-OF-SEARCH: 700/96, 700/182, 700/97, 700/98, 700/99, 700/104, 700/106

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5272641</u>	December 1993	Ford et al.	700/97
<input type="checkbox"/>	<u>5311437</u>	May 1994	Leal et al.	700/106
<input type="checkbox"/>	<u>5339247</u>	August 1994	Kirihara et al.	700/106
<input type="checkbox"/>	<u>5504687</u>	April 1996	Wolf	700/95
<input type="checkbox"/>	<u>5519630</u>	May 1996	Nishiyama et al.	395/500.01
<input type="checkbox"/>	<u>5646862</u>	July 1997	Jolliffe et al.	395/500.18
<input type="checkbox"/>	<u>5838965</u>	November 1998	Kavanagh et al.	707/103
<input type="checkbox"/>	<u>5856925</u>	January 1999	Maeda et al.	395/500.06

## OTHER PUBLICATIONS

Waters et al., "Use an interchange format to port component libraries", E.D.N. Electrical Design News, Feb. 5, 1987, No. 3, pp. 175-185.  
Arai et al., "A Design Model Integration Mechanism in the Design Environment Date", Systems and Computers in Japan; Nov. 1, 1993, No. 12, pp. 54-63.  
Hiroyuki, "Data Conversion Processing Method in Drawing Control System", Patent Abstracts of Japan, vol. 96, No. 007, Jul. 31, 1996.

ART-UNIT: 211

PRIMARY-EXAMINER: Gordon; Paul P.

ASSISTANT-EXAMINER: Cabrera; Zoila

ATTY-AGENT-FIRM: Morgan &amp; Finnegan, LLP

## ABSTRACT:

Since a plurality of electric CAD systems (CAD) 1 generate circuit diagram data with different data structures, input interface (IF) software (SOFT) implements processing for extracting predetermined item data used in parts selection SOFT from each CAD, and processing for adding data obtained by the parts selection SOFT to each CAD. The parts selection SOFT implements selection of parts, output of slips, and the like on the basis of the predetermined item data. Output IF-SOFT converts information associated with the selected parts output from the parts selection SOFT into a different data format used in the subsequent process, and outputs the converted information.

29 Claims, 40 Drawing figures

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L7: Entry 291 of 348

File: USPT

Apr 30, 2002

US-PAT-NO: 6381032

DOCUMENT-IDENTIFIER: US 6381032 B1

TITLE: Postscript to PDF conversion of graphic image files

DATE-ISSUED: April 30, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lavery; Timothy A.	Seattle	WA		
Klatt; Cory E.	Edmunds	WA		
Krum; Brent A.	Redmond	WA		
Roy; Larry G.	Bothell	WA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
ImageX, Inc.	Kirkland	WA			02

APPL-NO: 09/ 481010   [PALM]  
DATE FILED: January 10, 2000

## PARENT-CASE:

This application is related to U.S. patent applications Ser. Nos. (09/480,334, 09/480,821, 09/481,550, 09/480,332, 09/480,869, 09/480,881, 09/480,335, 09/480,645, 09/480,185, 09/480,987, 09/480,980, 09/481,007, 09/480,820, 09/481,372, 09/481,372, 09/480,866), filed on the same date herewith, which are hereby incorporated by reference. This application is also related to U.S. patent application Ser. No. 09/460,307 filed on Dec. 13, 1999, entitled "System and File Structure for Consistent Visual Medium Materials."

INT-CL: [07] G06 K 15/00

US-CL-ISSUED: 358/1.15; 358/1.13

US-CL-CURRENT: 358/1.15; 358/1.13

FIELD-OF-SEARCH: 358/1.1, 358/1.2, 358/1.5, 358/1.9, 358/1.13, 358/1.15, 358/400, 358/500, 382/169, 382/170, 382/260, 382/276, 382/277, 382/302, 709/200, 709/201, 709/203, 709/248, 707/100, 707/101, 707/500, 707/523

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5029115</u>	July 1991	Geraci	345/601
<input type="checkbox"/>	<u>5113356</u>	May 1992	Nickell et al.	358/1.8
<input type="checkbox"/>	<u>5581667</u>	December 1996	Bloomberg	358/1.9
<input type="checkbox"/>	<u>5625766</u>	April 1997	Kauffman	382/297
<input type="checkbox"/>	<u>5666543</u>	September 1997	Gartland	707/526
<input type="checkbox"/>	<u>5713032</u>	January 1998	Spencer	707/515
<input type="checkbox"/>	<u>5761392</u>	June 1998	Yacoub et al.	358/1.8
<input type="checkbox"/>	<u>5848415</u>	December 1998	Guck	707/10
<input type="checkbox"/>	<u>5911776</u>	June 1999	Guck	709/217
<input type="checkbox"/>	<u>5988899</u>	November 1999	Benson et al.	400/61
<input type="checkbox"/>	<u>6011905</u>	January 2000	Huttenlocher et al.	358/1.2
<input type="checkbox"/>	<u>6012070</u>	January 2000	Cheng et al.	707/505
<input type="checkbox"/>	<u>6049390</u>	April 2000	Notredame et al.	358/1.15
<input type="checkbox"/>	<u>6055064</u>	April 2000	Lifshitz et al.	358/1.9
<input type="checkbox"/>	<u>6088710</u>	July 2000	Dreyer et al.	707/517
<input type="checkbox"/>	<u>6205451</u>	March 2001	Warmus et al.	707/500
<input type="checkbox"/>	<u>6229623</u>	May 2001	VerMurlen	358/1.9

ART-UNIT: 2624

PRIMARY-EXAMINER: Garcia; Gabriel

ATTY-AGENT-FIRM: Beyer Weaver &amp; Thomas, LLP

## ABSTRACT:

An on-line automated printing system quickly produces consistent printed materials. The system includes front-end customer setup and product setup modules available on a web server. A Print Ready File is produced embodying the product to be printed. The Print Ready File is compiled and all operations on the file can be completed via reference to the information contained therein. A state flag is associated with each element of the file, the flag having states such as preview, print, both, or none. The file is stored on an asset management file server. The file (unchanged) may be previewed or printed using internal flags and logic built-in to the PostScript language. A batcher service batches print jobs. A plater service accepts the Print Ready Files and outputs a plate file to a print vendor's ordering system. Over the Internet the plate file is sent to a vendor computer. The plate file is sent to a raster image processor (RIP) which outputs a bitmap to be printed. Included within the system is a PostScript to PDF conversion subsystem. A client application requests conversion of a file to PDF and pulls conversion parameters from an image logic information database. The client sends the parameters along with input and output files to a master service. The master service selects a lower-level service for conversion. A PostScript to PDF conversion module (with hardcoded parameters) executes the software application Distiller to perform conversion of the file and outputs the result.

13 Claims, 20 Drawing figures

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L7: Entry 295 of 348

File: USPT

Jan 8, 2002

US-PAT-NO: 6337745

DOCUMENT-IDENTIFIER: US 6337745 B1

TITLE: Routing print jobs

DATE-ISSUED: January 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Aiello, Jr.; Albert	Wellesley	MA		
Moss; Clive H.	Winchester	MA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
FMR Corp.	Boston	MA			02

APPL-NO: 08/ 924269    [PALM]

DATE FILED: September 5, 1997

## PARENT-CASE:

This is a divisional of copending application Ser. No. 08/609,776 filed Mar. 1, 1996.

INT-CL: [07] G06 K 15/00

US-CL-ISSUED: 358/1.15; 358/1.1

US-CL-CURRENT: 358/1.15; 358/1.1

FIELD-OF-SEARCH: 395/101, 395/106, 395/109, 395/112, 395/114, 395/117, 395/200.3, 395/200.31, 395/200.43, 395/200.47, 395/200.48, 395/200.49, 395/200.72, 358/444, 358/468, 358/407, 358/404, 358/1.1, 358/1.6, 358/1.4, 358/1.13, 358/1.15, 358/1.17, 709/203, 709/200, 709/201, 709/213, 709/217, 709/218, 709/219, 709/242, 382/276, 382/309, 382/284

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

Search Selected

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5165014</u>	November 1992	Vassar	394/112
<input type="checkbox"/>	<u>5220674</u>	June 1993	Morgan et al.	395/800
	<u>5287194</u>	February 1994	Lobiondo	358/296



<input type="checkbox"/>				
<input type="checkbox"/>	<u>5303336</u>	April 1994	Kageyama et al.	395/114
<input type="checkbox"/>	<u>5353388</u>	October 1994	Motoyama	395/117
<input type="checkbox"/>	<u>5450571</u>	September 1995	Rosekrans et al.	395/500
<input type="checkbox"/>	<u>5467434</u>	November 1995	Hower, Jr. et al.	395/114
<input type="checkbox"/>	<u>5475801</u>	December 1995	Brindle et al.	395/114
<input type="checkbox"/>	<u>5513126</u>	April 1996	Harkins et al.	364/514A
<input type="checkbox"/>	<u>5537626</u>	July 1996	Kraslavsky et al.	395/828
<input type="checkbox"/>	<u>5577172</u>	November 1996	Vatland et al.	395/114
<input type="checkbox"/>	<u>5580177</u>	December 1996	Gase et al.	400/61
<input type="checkbox"/>	<u>5590245</u>	December 1996	Leamy et al.	395/118
<input type="checkbox"/>	<u>5594840</u>	January 1997	Sahay et al.	395/113
<input type="checkbox"/>	<u>5596723</u>	January 1997	Romohr	395/200.16
<input type="checkbox"/>	<u>5625757</u>	April 1997	Kageyama et al.	395/113
<input type="checkbox"/>	<u>5638497</u>	June 1997	Kimber et al.	395/114
<input type="checkbox"/>	<u>5699493</u>	December 1997	Davidson, Jr. et al.	395/114
<input type="checkbox"/>	<u>5699494</u>	December 1997	Colbert et al.	395/114
<input type="checkbox"/>	<u>5727135</u>	March 1998	Webb et al.	395/113
<input type="checkbox"/>	<u>5754747</u>	May 1998	Reilly et al.	395/114
<input type="checkbox"/>	<u>5799147</u>	August 1998	Shannon	714/6
<input type="checkbox"/>	<u>5940186</u>	August 1999	Barry et al.	358/296

ART-UNIT: 2624

PRIMARY-EXAMINER: Garcia; Gabriel I.

ATTY-AGENT-FIRM: Fish & Richardson P.C.

ABSTRACT:

A method for open systems printing including routing print jobs automatically from different types of source computers to different types of printers without the source computers selecting printers for each print job. A method for open systems printing including routing print jobs automatically from an arbitrary number of source computers to an arbitrary number of printers without the source computers selecting printers for each print job. A method for printing including controlling the printing of print jobs on high-speed production printers through a graphical user interface. A print server for use with different types of source computers and different types of printers, the print server directs print jobs received from the source computers to the printers without the source computers selecting printers for each print job. A print server for use with an arbitrary number of similar types of source computers and an arbitrary number of similar types of printers, the print server directs print jobs received from the source computers to the printers without the source computers selecting printers for each print job.

19 Claims, 31 Drawing figures

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L7: Entry 297 of 348

File: USPT

Nov 20, 2001

US-PAT-NO: 6321266

DOCUMENT-IDENTIFIER: US 6321266 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Input/output apparatus connected to a plurality of host computers via a network

DATE-ISSUED: November 20, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yokomizo; Yoshikazu	Yokohama			JP
Sugiura; Susumu	Atsugi			JP
Mita; Yoshinobu	Kawasaki			JP
Takaoka; Makoto	Yokohama			JP
Sugiyama; Mitsumasa	Kawasaki			JP
Kobayashi; Shigetada	Tokyo			JP
Shishizuka; Junichi	Kawasaki			JP
Negishi; Tsutomu	Tokyo			JP
Yamada; Osamu	Yokohama			JP
Toda; Yukari	Yokohama			JP
Saito; Kazuhiro	Yokohama			JP
Toda; Masanari	Yokohama			JP
Hashimoto; Yasuhiko	Tokyo			JP
Fukuda; Yasuo	Yokohama			JP

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Canon Kabushiki Kaisha	Tokyo			JP	03

APPL-NO: 08/ 657531   [PALM]

DATE FILED: June 4, 1996

## PARENT-CASE:

This application is a continuation, of application Ser. No. 08/182,964 filed Jan. 18, 1994, now abandoned.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	5-021703	January 18, 1993

INT-CL: [07] G06 F 13/00

US-CL-ISSUED: 709/226; 358/400

US-CL-CURRENT: 709/226; 358/400

FIELD-OF-SEARCH: 395/200.01, 395/114, 709/217, 709/203, 709/226, 709/206, 358/400

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

Search Selected

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4057849</u>	November 1977	Ying et al.	345/141
<input type="checkbox"/>	<u>4713780</u>	December 1987	Schultz et al.	709/206
<input type="checkbox"/>	<u>4754428</u>	June 1988	Schultz et al.	709/246
<input type="checkbox"/>	<u>4984162</u>	January 1991	Torii et al.	707/530
<input type="checkbox"/>	<u>5041918</u>	August 1991	Ishida et al.	358/442
<input type="checkbox"/>	<u>5095301</u>	March 1992	Gutttag et al.	345/155
<input type="checkbox"/>	<u>5173853</u>	December 1992	Kelly et al.	707/530
<input type="checkbox"/>	<u>5187592</u>	February 1993	Sugiyama et al.	358/430
<input type="checkbox"/>	<u>5216461</u>	June 1993	Maekawa et al.	399/8
<input type="checkbox"/>	<u>5220380</u>	June 1993	Hirata et al.	399/8
<input type="checkbox"/>	<u>5251020</u>	October 1993	Sugiyama	358/500
<input type="checkbox"/>	<u>5257069</u>	October 1993	Hirata et al.	399/8
<input type="checkbox"/>	<u>5274470</u>	December 1993	Karita et al.	358/448
<input type="checkbox"/>	<u>5295236</u>	March 1994	Bjorge et al.	345/434
<input type="checkbox"/>	<u>5300980</u>	April 1994	Maekawa et al.	399/8
<input type="checkbox"/>	<u>5404199</u>	April 1995	Hirata et al.	399/8
<input type="checkbox"/>	<u>5424844</u>	June 1995	Koyanagi et al.	358/296
<input type="checkbox"/>	<u>5544317</u>	August 1996	Berg	709/235
<input type="checkbox"/>	<u>5579087</u>	November 1996	Salgado et al.	399/1
<input type="checkbox"/>	<u>5657461</u>	August 1997	Harkins et al.	345/333
<input type="checkbox"/>	<u>5720013</u>	February 1998	Uda et al.	358/1.15
<input type="checkbox"/>	<u>5822507</u>	October 1998	Uda et al.	358/1.15
<input type="checkbox"/>	<u>5911044</u>	June 1999	Lo et al.	709/203
<input type="checkbox"/>	<u>6115739</u>	September 2000	Ogawa et al.	709/215
<input type="checkbox"/>	<u>6167462</u>	December 2000	Davis et al.	710/5

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
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40-5292240

November 1993

JP

## OTHER PUBLICATIONS

Xerox LAN/Fax Express 21; Supervisor Handbook; pp. 1-1 thru 1-11, 2-8, 2-9, 2-10, glossary, Aug. 1991.\*

Xerox 7033 LAN Fax Server, Supervisor Handbook; pp. 1-1 thru 1-11, glossary, Jul. 1992.\*

Iizawa et al.; Avital, A Private Teaching System by Fax Communication; Proc. of the 2nd Intern'l Conf. on Systems Integration; ICSI 1992; pp. 293-301, Jun. 1992.\*

Xerox Telecopier 7032/7033; User Handbook; pp. 2-1 thru 2-5, 4-1, 4-10 thru 4-15, 6-65, 6-66, 1991.\*

Teresa T. Lau; "Building a Paperless Office With Document Image Processing System"; IPCC 90 Communication Across the Sea: North American and European Practices; pp. 40-42, Sep. 1990.\*

W. Stallings; Data and Computer Communications; pp. 9, 391-397, 406-413, 1988.

ART-UNIT: 214

PRIMARY-EXAMINER: Coulter; Kenneth R.

ATTY-AGENT-FIRM: Fitzpatrick, Cella, Harper, & Scinto

## ABSTRACT:

An input/output apparatus is connected to a plurality of host computers via a network and executes both a scanning function and a printing function. The apparatus includes a portion that generates image data from data input from a first one of the host computers and prints the generated image data by executing the printing function, and further includes an output device that scans image data by executing the scanning function and outputs the scanned image data to a second one of the host computers in response to a request command. As a result, the input/output apparatus may operate in coordination with a plurality of personal computers by using the network to transfer image data therebetween.

51 Claims, 103 Drawing figures

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L7: Entry 300 of 348

File: USPT

May 22, 2001

US-PAT-NO: 6236463

DOCUMENT-IDENTIFIER: US 6236463 B1

TITLE: Generating high speed variable information printed multiple page documents

DATE-ISSUED: May 22, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cyman; Theodore F.	Grand Island	NY		
Weller; Kim K.	Angola	NY		
Recchione; Robert J.	Niagara Falls	NY		
Mariani; Frank J.	Grand Island	NY		
Proefrock; Charles W.	North Tonawanda	NY		
Kolniak; Thomas P.	Grand Island	NY		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Moore U.S.A., Inc.	Grand Island	NY			02

APPL-NO: 09/ 006385    [PALM]

DATE FILED: January 13, 1998

## PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATION This is based upon provisional application Ser. No. 60/035,700 filed Jan. 17, 1997.

INT-CL: [07] G06 K 15/00

US-CL-ISSUED: 358/114; 358/11, 358/15, 358/117

US-CL-CURRENT: 358/1.14; 358/1.1, 358/1.17, 358/1.5

FIELD-OF-SEARCH: 395/101, 395/105, 395/109, 395/114, 395/117, 358/1.1, 358/1.5, 358/1.9, 358/1.14, 358/1.17

## PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

**Search Selected****Search ALL****Clear**

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>6046820</u>	April 2000	Konishi	358/19

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 459 793	December 1991	EP	
470 782 A2	February 1992	EP	
0 470 782	February 1992	EP	
0 738 987	October 1996	EP	
96/19352	June 1996	WO	

ART-UNIT: 261

PRIMARY-EXAMINER: Zimmerman; Mark

ASSISTANT-EXAMINER: Sealy; Lance W.

ATTY-AGENT-FIRM: Nixon &amp; Vanderhye PC

## ABSTRACT:

A system and method are provided which have the ability to print whole documents at a time, rather than page by page. The data for an entire multi-page document is fed directly to an output device, and then a print engine. The data stream includes a record layout including data field codes which tell the data system and/or raster image processor where to print strings of variable information in a document so that the strings only need be provided once even if printed in multiple places within the document. Data flows in the data stream to the print engine as the raster image processor functions in real time. The system has the capability to manipulate and transfer data at 10 Mbytes per second, which translate into a transfer rate of approximately 92,000 characters per second at up to 1,000 feet per minute print speeds, for up to six controllers. Either fixed or variable graphic elements may also be transferred in this same manner as the data and processed by the RIP in real time and printed at the same speed as the data.

19 Claims, 6 Drawing figures